

SAFETY PRECAUTIONS

SERVICE WARNING

Only qualified service technicians who are familiar with safety checks and guidelines should perform service work. Before replacing parts, disconnect power source to protect electrostatically sensitive parts. Do not attempt to modify any circuit unless so recommended by the manufacturer. When servicing the receiver, use an isolation transformer between the line cord and power receptacle.

SERVICING THE HIGH VOLTAGE AND CRT

Use EXTREME CAUTION when servicing the high voltage circuits. To discharge static high voltage, connect a 10K ohms resistor in series with a test lead between the receiver ground and CRT anode lead. DO NOT lift the CRT by the neck. Always wear shatterproof goggles when handling the CRT to protect eyes in case of implosion.

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

Be aware of the instructions and procedures covering X-ray radiation. In solid-state receivers and monitors, the CRT is the only potential source of X-rays. Keep an accurate high voltage meter available at all times. Check meter calibration periodically. Whenever servicing a receiver, check the high voltage at various brightness levels to be sure it is regulating properly. Keep high voltage at rated value, NO HIGHER. Excessive high voltage may cause X-ray radiation or failure of associated components. DO NOT depend on protection circuits to keep voltage at rated value. When troubleshooting a receiver with excessive high voltage, avoid close contact with the CRT. DO NOT operate the receiver longer than necessary. To locate the cause of excessive high voltage, use a variable AC transformer to regulate voltage. In present receivers, many electrical and mechanical components have safety related characteristics which are not detectable by visual inspection. Such components are identified by a # on both the schematic and the parts list. For SAFETY, use only equivalent replacement parts when replacing these components.

GENERAL GUIDELINES

Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields, covers, grounds, and mounting hardware have been replaced. Be sure to replace all insulators and restore proper lead dress.

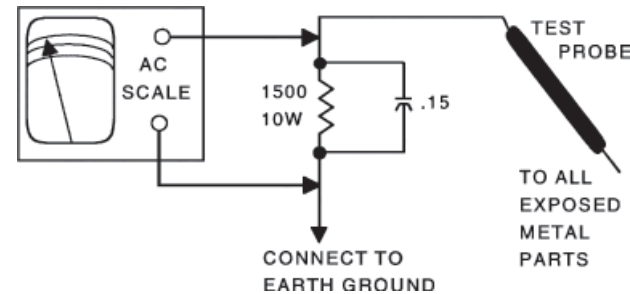
SAFETY CHECKS — FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with a return path should measure between 1M ohms and 5.2M ohms. Parts without a return path must measure infinity.

Hot Leakage Current Check

Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15µF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point. Voltage measurements should not exceed .75VAC, 500µA. Any value exceeding this limit constitutes a potential shock hazard and must be corrected. If the AC plug is not polarized, reverse the AC plug and repeat exposed metal part voltage measurement at each point.



The listing of any available replacement part herein in no case constitutes a recommendation, warranty, or guarantee by SAMS Technical Publishing, LLC as to the quality and suitability of such replacement part. The numbers of the listed parts have been compiled from information furnished to SAMS Technical Publishing, LLC by the manufacturers of the specific type of replacement part listed.

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PHOTOFACT[®] Technical Service Data

SILVER

SET 5335

MODEL 32V434TYX1 (CHASSIS ATC010A)

RCA

RCA

Model 32V434TYX1 (Chassis ATC010A)



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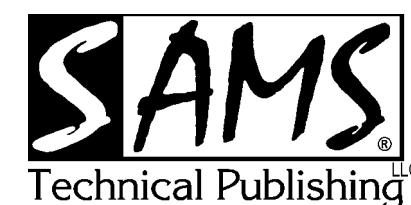
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Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

Models	Chassis
32V434TYX5	ATC010A
32V434TYX6	ATC010A



JANUARY 2008 SET 5335

For a Complete List of Manuals,
Visit www.samswebsite.com

5335

5335

MISCELLANEOUS ADJUSTMENTS

B+ ADJUSTMENT

1. Tune the set to receive a crosshatch signal.
2. Set the preset picture in the normal mode.
3. Check for 130VDC +/- 1.0V at C828.

RF AGC ADJUSTMENT

The RF AGC is preset at the factory for optimum operation over a wide range of RF signal input conditions. Readjustment should not be required, unless the tuner has been repaired or replaced.

Adjustment of the RF AGC parameters may not be apparent, adjusting the RF AGC from one extreme of its limits to another will render a poor signal to noise ratio on one end, while adjustments to the other end of its limits may cause degradation or overload conditions, adjacent channel interference. Use the weakest local signal when adjusting the RF AGC if adjustments are made check all local channels for proper operation.

Input 60db gray scale signal at 100% modulation through the tuner from the RF-IF output of a video generator, enter the service mode and press 4 on the remote control to select the RF AGC adjustment. Press the INFO key on the remote control to auto adjust the RF AGC. The status will change to 'active' when the adjustment is complete. The value can be changed by using the left and right navigation arrows on the remote control.

SCREEN ADJUSTMENT

Tune the set to receive a crosshatch signal, set the picture color temperature to normal, set picture brightness and contrast controls to midrange. Enter the service mode and press the go back button on the remote control, this will collapse the vertical to a horizontal line. Adjust the screen control to produce a dim horizontal line, then press the GO Back button on the remote control to restore the picture.

FOCUS ADJUSTMENT

Tune the set to receive a crosshatch signal adjust the focus control for the best overall focus.

COLOR TEMPERATURE ADJUSTMENT

Perform the screen adjustment, set the picture color temperature to normal set picture brightness and contrast controls to midrange. Tune the set to receive a gray scale stair-step test pattern. Enter the service mode to menu 1 and adjust the value of the high and low controls to proper color tracking no tinting only black and white and shades of gray the correct color temperature is 9300 degrees, check the low light to hi light for gray scale tracking.

SUB BRIGHTNESS ADJUSTMENT

Tune the set to receive a gray scale stair-step test pattern using the A/V inputs set the picture temperature to 'normal' using the customer menu, set picture brightness and contrast controls to midrange. Enter the service mode to select Menu 6 with the remote control. Adjust the value of BRTC Sub-brightness to just lighten the second bar making sure the first bar remains black.

X-RAY PROTECTION TEST

Tune the set to receive a crosshatch signal. Apply an external power supply voltage to C417 observe polarity slowly increase the voltage from the power supply. The set must shut down and remain off when the voltage reaches 30 volts DC.

ENTERING THE INITIAL SCREEN

To view the initial screen, press the volume down button on the set to decrease the volume. to a minimum and while holding the volume down on the set, press the 0 key on the remote two times. Press 0 once again to enter the service mode. The (example) screen below will be displayed.

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
ADRO	01010000
ADR1	0111000
ADR2	11100111
ADR3	0001111
AFC	00000000
RG	01000000
GG	11000000
BG	01000000
DELf	11001111(varying)
DISC	127(varying)
LAST NV:	6607
ERR:	00000000
REV:	402114

ENTERING SERVICE MODE

To enter the service mode from power on, press the volume down button on the set to decrease the volume to a minimum and while holding the volume down on the set, press the 0 key on the remote three times to enter the service mode.

Press 0 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
DEC LVL	0
MONO LVL	0
NIC LVL	0
SAP LVL	0
ADC LVL	0
DCXO CAP 57	57
DISC:	91 TO 255 (Varying)
NICLPINV	Inverted
PSCALE	0.375
DCXO:	64
PLIM	96
PCENTER	0
LOUDNESS	6

Press #1 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
WPR	19
RED	38
WPG	14
GRN	33
WPB	14

Press #2 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
VPOS	48
VAM	30
VSL	26
VL	32
VSC	31
SCL	21
WBR	7
WBF	7
BSWBR	6
BSWBF	6

Press #3 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
HSB	47
PAR	34
BOW	36
EWV	56
EWP	31
VCR	44
LCR	38
EWT	32

Press #4 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
RF AGC	20 Active
CEPK PAL	32
CFPEKPAL	3.5+143
CFPEKNTS	3.1+160
CFPEKYUV	4.0+125
IFPL	32
BBTC	32
PGR	64
PGG	64
PGB	64
VG2BRI	20
HDOL	3

Press #5 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
CNTX	50
CNTN	8
BRTX	40
BRTN	10
COLX	13
COLN	2
TNTX	20
TNTN	20

PRESS #6 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
CNTC	11
BRTC	20
COLC	23
TNTCT	31
TNTCA	32
COLP	0
COLS	0
BRTS	0
BUSSTAT	2
RECOVER	6

PRESS #7 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
SHPAV4	31
SHPX	31
SHPN	31
OSD BRI	9
CC BRI	10
CCDH	10
CCDV	30
OSD H	13
OSD V	30
MENU V	30
MENU H	7

PRESS #8 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
00P1	00001010
0P02	10000001
0P03	00010011
0P04	00100000
0P05	00100100
0P06	00001010
0P07	01000000
0P08	00000101
0P09	10000000

PRESS #9 key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D
MODE 1	01110111
MODE 2	00111111
MODE 3	00001000
MODE 4	11010111
MODE 5	00011101
MODE 6	00110010
MODE 7	00100010
MODE 8	11100010
MODE 9	00100000

MISCELLANEOUS ADJUSTMENTS

PRESS Preset key 1 time

BASS	M	6
TREBLE	M	10
100Hz	M	7
300Hz	M	9
1Khz	M	6
3Khz	M	8
8Khz	M	10

PRESS Preset key 2 times

BASS	S	22
TREBLE	S	13
100Hz	S	6
300Hz	S	9
1Khz	S	9
3Khz	S	9
8Khz	S	6

PRESS Preset key 3 times

BASS	T	13
TREBLE	T	22
100Hz	T	7
300Hz	T	8
1Khz	T	6
3Khz	T	6
8Khz	T	9

PRESS Preset key 4 times

BASS	STD	28
TREBLE	STD	26
100Hz	STD	6
300Hz	STD	9
1Khz	STD	8
3Khz	STD	6
8Khz	STD	7

PRESS Sleep key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D	
Warm	R	18
Warm	G	11
Warm	B	4
Cool	R	8
Cool	G	10
Cool	B	4
exc	R	32
exc	G	38
exc	WR	32
exc	WG	32
exc	WB	32

PRESS CC key

VOC300C	2.0.3.2.1 06.08.18 VR4.1D	
Vol	01	60
Vol	10	92
Vol	90	183
Vol	100	190
YD	Av	15

Use the up down arrows to navigate up and down and the left right arrows to change the values. Menus up to 13 can be selected directly using the remote control buttons 0~9 preset button, sleep button, CC button. Press the antenna button to save the settings and exit the service mode.

Several factor alignments appear in the menus but only the ones listed should be changed in some cases the value (hex number) can be changed but the actual value the set is using cannot be changed except at the factory using factory equipment.

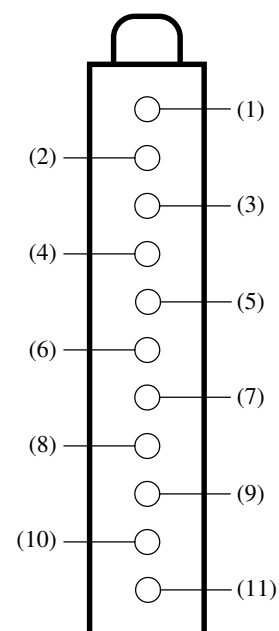
TUNER INFORMATION

ANALOG TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	4.3V	4.3V	4.3V
(2) NC	-	-	-
(3) GND	0V	0V	0V
(4) SCL	2.2V	2.2V	2.2V
(5) SDA	3.6V	3.6V	3.6V
(6) VCC	4.9V	4.9V	4.9V
(7) VCC	4.9V	4.9V	4.9V
(8) NC	-	-	-
(9) +33V	33.0V	33.0V	33.0V
(10) NC	-	-	-
(11) IF	0V	0V	0V

NOTE: VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.
NO Change between channels.

ANALOG TUNER TERMINAL GUIDE

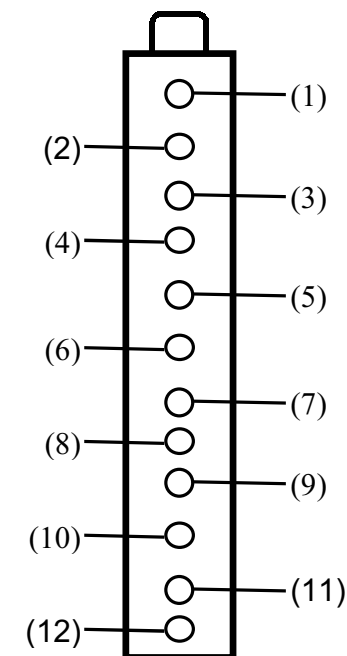


DIGITAL TUNER VOLTAGE CHART

Pin	DIGITAL
(1) RF AGC	.04V
(2) BC	0V
(3) +5V	5.0V
(4) VT	1.0V
(5) SDA	4.9V
(6) SCL	4.9V
(7) +5V	4.9V
(8) IF OUT	0V
(9) NC	
(10) IF AGC	.76V
(11) IF1	0V
(12) IF2	0V

NO Change between channels.

DIGITAL TUNER TERMINAL GUIDE



SCHEMATIC COMPONENT LOCATION GUIDE

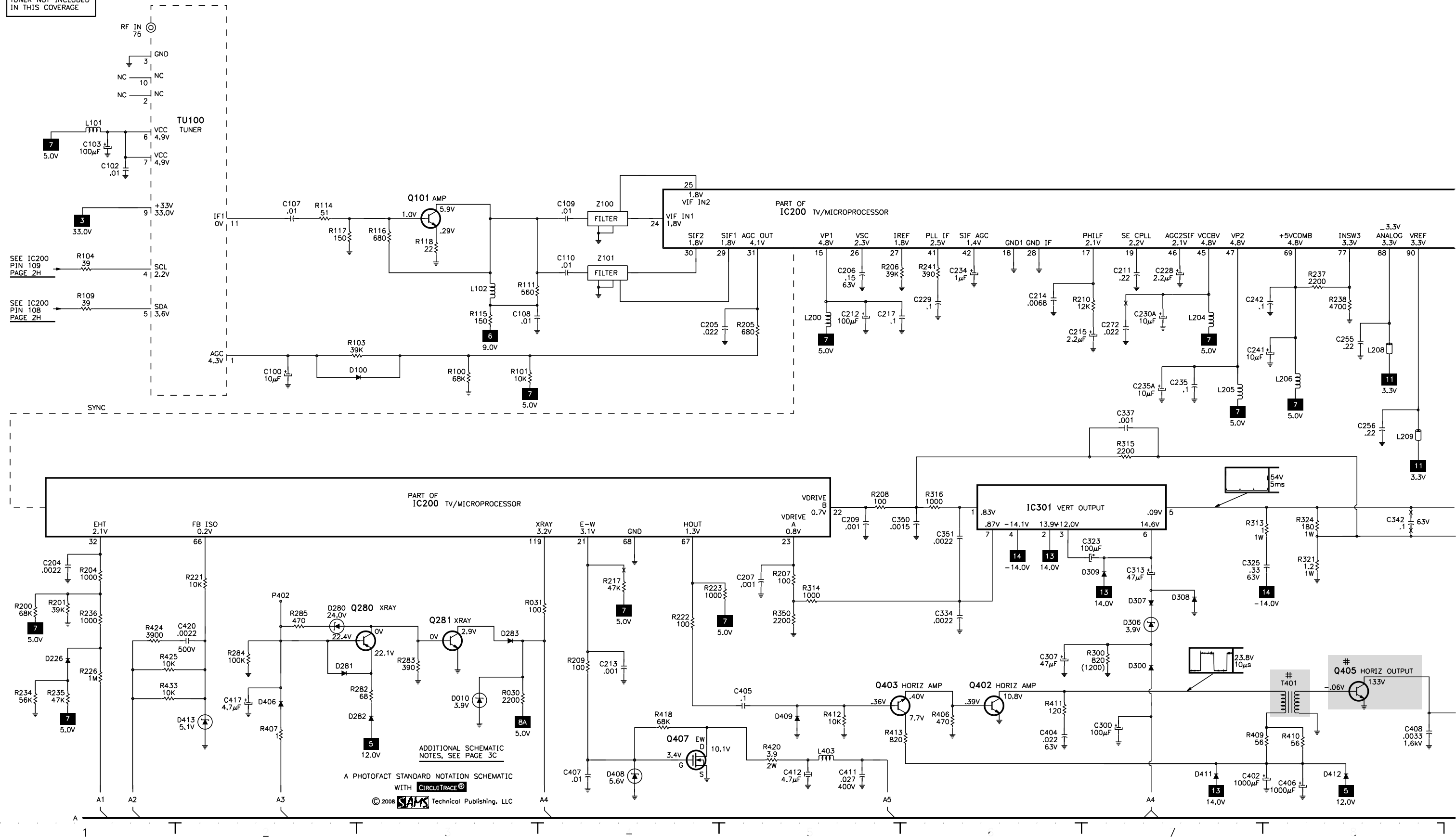
(P905)	D33	C217	C5	C270	C12	C531	C13	C860	D18	C804A	B18	D821	D22	L102	C3	Q080	D23	R016	C35	R206	B5	R262	A36	R516	A14	R818	C19	R922	D33
C003	C31	C218	E21	C271	E35	C532	B14	C861	D18	C805A	A18	D822	A21	L200	C5	Q101	B3	R017	C35	R207	D5	R026A	C29	R517	A14	R820	B21	R923	C33
C004	D31	C219	E21	C272	C7	C540	C15	C862	E17	CRT500	C16	D823	B21	L201	D36	Q200	E23	R018	E31	R208	D5	R270	C11	R518	B14	R822	B21	R924	D33
C005	C31	C222	D35	C281	B30	C600	D38	C863	E17	D003	C36	D824	C18	L202	D36	Q201	E22	R022	C37	R209	E4	R271	C11	R519	A14	R823	D21	R925	D33
C017	E36	C223	D36	C282	D21	C601	D39	C864	E18	D006	B29	D860	D18	L203	E35	Q202	E21	R023	C37	R210	C7	R027A	C29	R521	C13	R826	A22	R926	C34
C018	B30	C224	D35	C283	E31	C604	D38	C865	D31	D008	C38	D861	D17	L204	C7	Q203	E21	R024	B30	R211	E22	R282	E3	R522	C13	R830	C18	R927	C34
C019	E36	C225	D36	C284	A30	C605	D39	C866	D20	D010	E3	D862	D17	L205	C7	Q204	C10	R025	A30	R212	E22	R283	E3	R523	C13	R832	C18	R928	D34
C021	C35	C227	E36	C300	E7	C606	E38	C867	D21	D080	E23	D863	D17	L206	C8	Q205	C38	R026	A30	R213	E22	R284	E2	R524	C13	R833	C17	R929	D34
C022	A37	C228	B7	C307	E6	C614	E38	C868	D20	D100	C2	D864	D17	L207	C10	Q206	A12	R027	A31	R214	E21	R285	D2	R525	C14	R835	C17	R932	D34
C023	A37	C229	C6	C308	C27	C615	E39	C890	E18	D102	A23	D865	E18	L208	C8	Q207	C12	R028	D35	R215	E21	R300	E7	R526	C14	R839	C17	R960	E33
C026	B31	C231	D34	C313	D7	C616	E38	C891	D17	D204	C12	D866	E17	L209	C8	Q208	B12	R029	B31	R216	D21	R313	D7	R527	C14	R840	B20	R961	E33
C027	A31	C232	D34	C323	D6	C070A	A29	C892	D17	D226	E1	D867	D32	L210	C11	Q211	E35	R030	E3	R217	D4	R314	D5	R528	C14	R841	C17	R962	E34
C029	C37	C233	A34	C324	D27	C801	A17	C893	E17	D280	D2	D868	D19	L211	D30	Q280	E2	R031	D3	R218	E35	R315	D7	R529	C14	R842	B17	R963	E34
C081	D23	C234	B6	C325	D7	C802	A18	C894	D18	D281	E2	D869	E20	L400	D10	Q281	E3	R033	B29	R219	E35	R316	D6	R531	B13	R849	E17	R1301	C23
C082	D24	C235	C7	C334	D6	C803	A18	C895	E20	D282	E3	D900	A33	L403	E5	Q402	E6	R034	A30	R220	E34	R321	D8	R532	B13	R860	D18	R1302	B43
C083	D24	C236	E34	C337	C7	C804	A19	C902	B38	D283	E3	D901	B33	L404	D10	Q403	E5	R035	D35	R221	D2	R324	D8	R533	B13	R861	E18	R1303	A43
C090	C23	C237	E34	C342	D8	C805	A19	C903	B38	D300	E7	D902	A33	L501	A16	Q405	E8	R036	E30	R222	D4	R0333	C29	R534	B13	R862	E18	R1304	B42
C091	C23	C238	D37	C350	D6	C806	A20	C904	B37	D304	E14	D903	C33	L801	A22	Q407	E4	R039	C30	R223	D4	R033A	E31	R535	B14	R863	E17	R1305	C43
C092	C23	C239	D37	C351	D6	C807	A20	C905	B37	D305	E14	D904	D33	L802	D22	Q408	E13	R042	D34	R225	A37	R350	D5	R536	B14	R864	E17	R1306	A42
C093	C23	C240	E35	C360	C28	C809	C18	C906	B34	D306	D7	D905	C33	L803	B20	Q511	A13	R045	D35	R226	E1	R401	D10	R537	B14	R865	E18	R1307	A41
C094	C22	C241	C7	C400	A26	C810	C19	C907	B34	D307	D7	D906	D33	L804	D22	Q512	A14	R047	D31	R227	C9	R406	E6	R538	C14	R867	E20	RF IN	A1
C095	C24	C242	C7	C401	B26	C811	C19	C908	B34	D308	D7	D907	D34	L805	D24	Q513	B14	R048	C30	R228	C10	R407	E2	R539	B14	R868	E20	RT801	A18
C100	C2	C243	B36	C402	E7	C812	C19	C909	B34	D309	D7	D1001A	E31	L806	A20	Q521	C13	R049	D31	R229	C11	R409	E7	R540	C16	R869	E20	RT802	A20
C102	B1	C244	A36	C404	E6	C813	C18	C910	A34	D400	A26	DB801	A19	L807	B22	Q522	C14	R050	C37	R230	A12	R410	E8	R541	C16	R890	D20	RT860	D17
C103	B1	C245	A36	C405	E5	C814	C19	C911	A34	D401	E9	DEGAUSS	B18	L808	A21	Q523	C14	R051	C37	R231	C11	R411	E6	R542	C16	R893	D31	S008	C29
C105	A24	C246	D34	C406	E8	C815	C20	C912	B34	D402	E9	F800	A17	L861	D20	Q531	B13	R052	C38	R232	B12	R412	E5	R600	D38	R900	B33	S001A	B29
C106	A23	C247	B36	C407	E4	C816	C19	C914	C34	D404	C27	IC001	C31	P601	C40	Q532	B14	R081	D23	R234	E1	R413	E5	R601	D38	R901	B33	S002A	B29
C107	B2	C248	C34	C408	E8	C820	B21	C915	B34	D405	D26	IC090	C23	P602	D40	Q533	C14	R090	C22	R235	E1	R418	E4	R602	D38	R902	B38	S003A	B29
C108	C3	C249	C34	C410	E10	C821	B21	C917	C34	D406	E2	IC091	C23	P800	A17	Q601	E38	R100	C3	R236	D1	R419	D10	R603	D38	R903	B38	S004A	C29
C109	B4	C250	C9	C411	E5	C822	B22	C918	B34	D408	E4	IC200	A30	P900	A39	Q602	D38	R101	C3	R237	C8	R420	E5	R606	D39	R904	B38	S005A	C29
C110	C4	C251	C9	C412	E5	C823	A23	C919	B34	D409	E5	IC200	B5	P900	B39	Q860	E20	R103	C2	R238	C8	R421	A16	R607	D39	R905	B38	S006A	C29
C200	D35	C252	C10	C413	E10	C824	B23	C920	A34	D411	E7	IC200	B9	P900	B39	Q861	D31	R104	B1	R023A	B29	R422	A16	R608	D37	R906	A33	T401	D7
C201	D35	C253	C10	C414	D10	C825	D22	C922	D33	D412	E8	IC200	C35	P901	A33	Q900	A38	R109	C1	R240	C10	R424	E1	R609	E37	R907	B34	T402	B26
C203	D36	C254	A12	C415	C27	C826	A21	C923	C33	D413	E2	IC200	D3	P901	B33	Q901	A38	R111	C3	R241	B6	R425	E1	R610	E38	R908	A38	T402	D12
C204	D1	C255	C8	C416	D26	C827	A22	C926	C34	D511	B13	IC301	D6	P901	B33	Q902	B37	R114	B2	R244	C9	R426	C26	R611	E39	R909	B34	T801	A17
C205	C4	C256	C8	C417	E2	C828	A21	C927	C34	D521	C13	IC601	D39	P902	B33	Q903	B37	R115	C3	R245	C9	R427	D25	R612	D39	R910	A38	T802	A18
C206	B5	C257	E35	C418	C27	C829	B23	C928	D34	D531	C13	IC801	B19	P902	B33	Q1301	A41	R116	B3	R024A	B29	R428	E14	R613	E38	R911	A34	T803	A20
C207	D5	C258	E35	C419	D26	C831	B22	C929	D34	D540	C15	IC802	B18	P902	C33	Q1302	A42	R117	B2	R250	B36	R429	E13	R622	D40	R912	A38	T860	D19
C208	D37	C259	B12	C420	E2	C832	B21	C930	D34	D600	E38	IC803	B17	P903	A33	Q1303	A43	R118	B3	R251	B36	R433	E1	R070A	A29	R913	C33	TU100	B2
C209	D5	C260	C11	C421	E13	C835	C17	C960	E34	D621	E40	IC804	D19	P904	C33	Q1304	B43	R130	A31	R252	B36	R435	A27	R801	A17	R914	B33	Z100	B4
C210	D37	C261	C29	C503	A27	C836	C17	C961	E34	D622	E38	IC860	D18	P904	C33	Q1305	C43	R131	B31	R253	B36	R501	D14	R810	B19	R915	C34	Z101	B4
C211	B7	C262	C29	C504	A28	C837	D22	C1301	C24	D623	D37	IR001	A29	P904	D33	Q1306	C43	R200	D1	R255	A12	R505	A27	R811	B18	R916	B34	Z200	C36
C212	C5	C264	C9	C505	D15	C838	B21	C1302	B43	D810	C19	K802	A18	P961	D33	R009	C31	R201	D1	R256	C12	R511	A13	R812	C18	R917	B33		
C213	E4	C265	B36	C511	B13	C839	D22	C1303	C43	D811	C19	K802	D32	P952L	E33	R010	D31	R202	B37	R257	B12	R512	A13	R813	C20	R918	A33		
C214	C6	C266	B36	C512	A14	C840	B20	C1304	C43	D812	C19	L001	E36	P952R	E33	R011	C31	R203	B37	R025A	B29	R513	A13	R814	C19	R919	B34		
C215	C7	C267	B36	C521	C13	C841	B22	C230A	C7	D813	C18	L002	A37	P953V	D33	R014	C35	R204	D1	R260	B36	R514	A13	R815	C19	R920	A34		
C216	C9	C268	C12	C522	C14	C842	B22	C235A	C7	D820	B21	L101	B1	Q001	C35	R015	C35	R205	C5	R261	A36	R515	B14	R816	C20	R921	C33		

RCA

MODEL 32V434TYX1 (Chassis ATC010A)

TELEVISION SCHEMATIC

TUNER NOT INCLUDED IN THIS COVERAGE

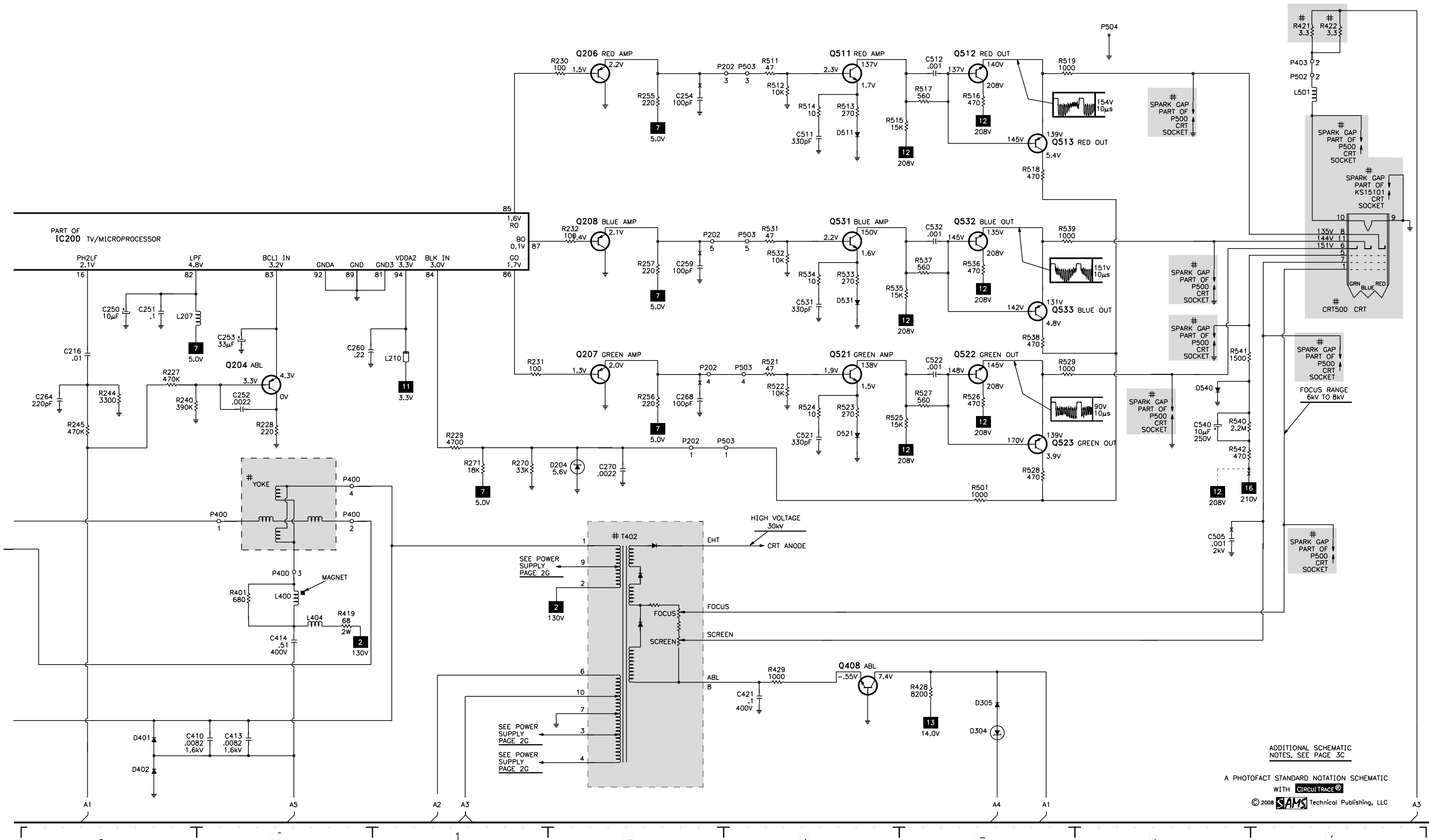


ADDITIONAL SCHEMATIC NOTES, SEE PAGE 3C

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TELEVISION SCHEMATIC continued

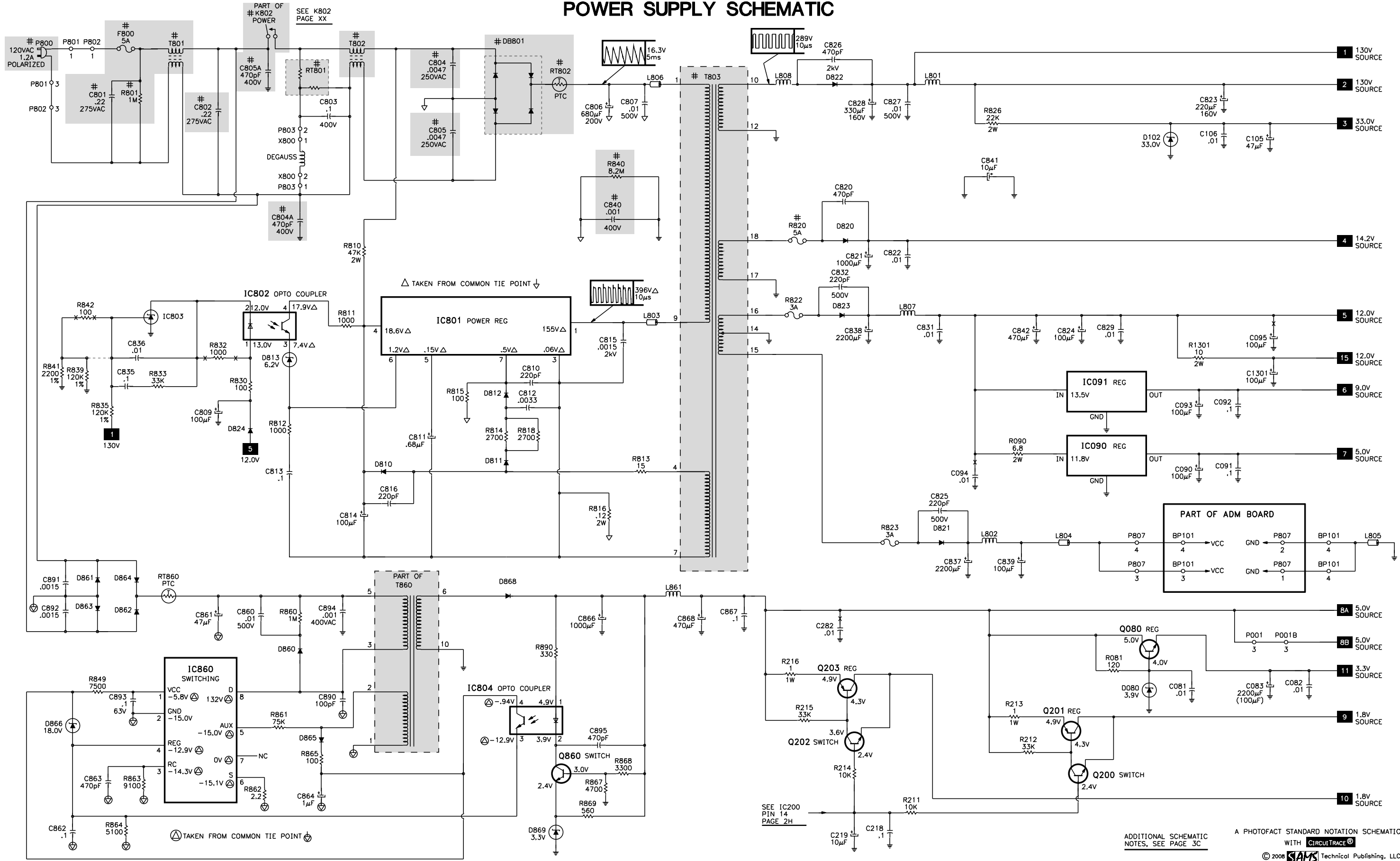


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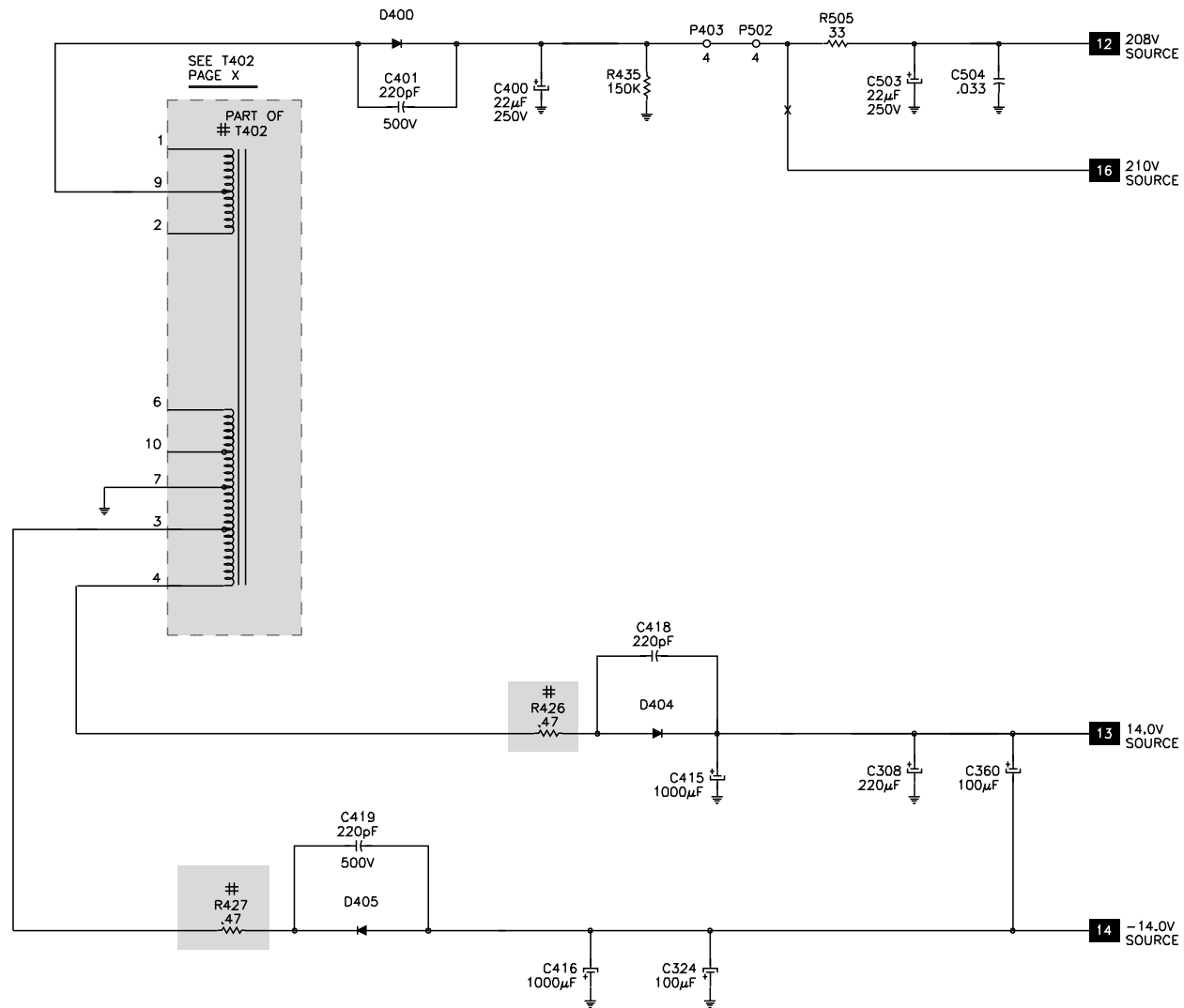
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POWER SUPPLY SCHEMATIC



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G POWER SUPPLY SCHEMATIC continued



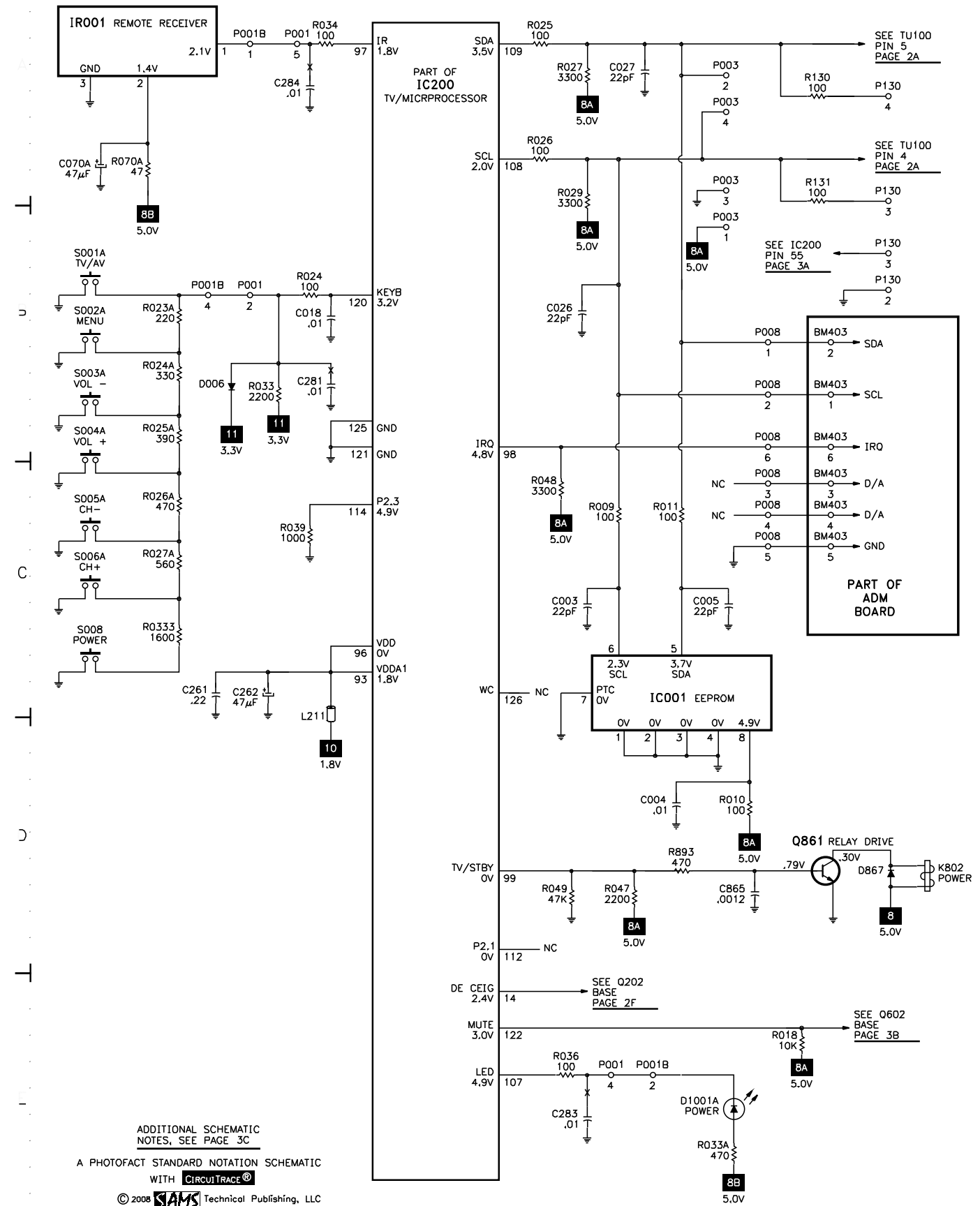
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H SYSTEM CONTROL SCHEMATIC

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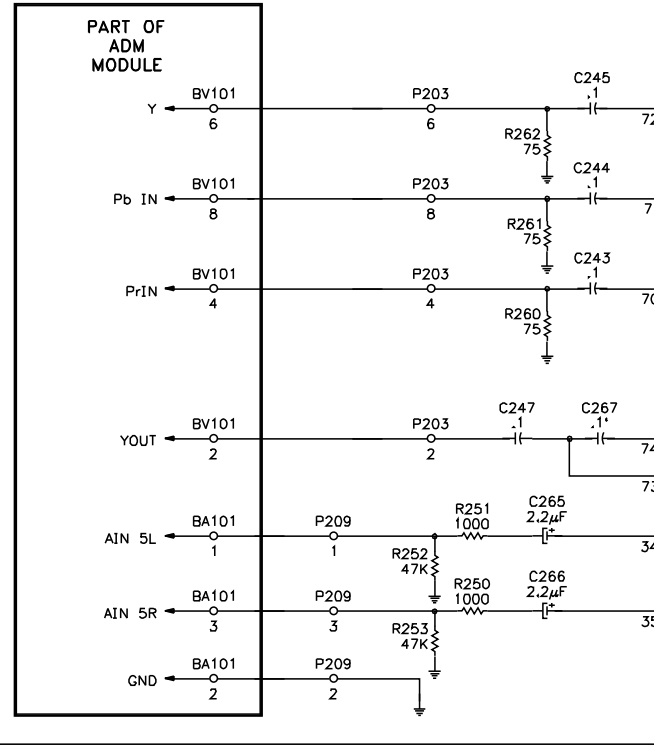
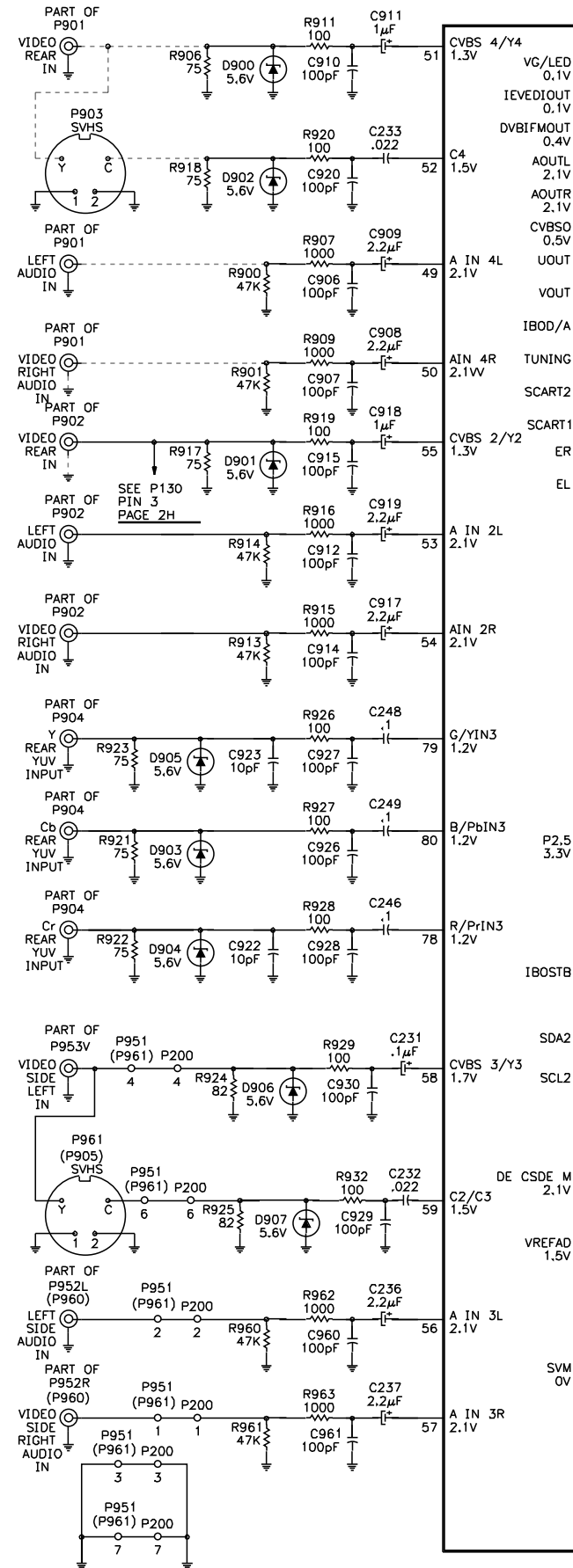


RCA MODEL 32V434TYX1 (Chassis ATC010A)

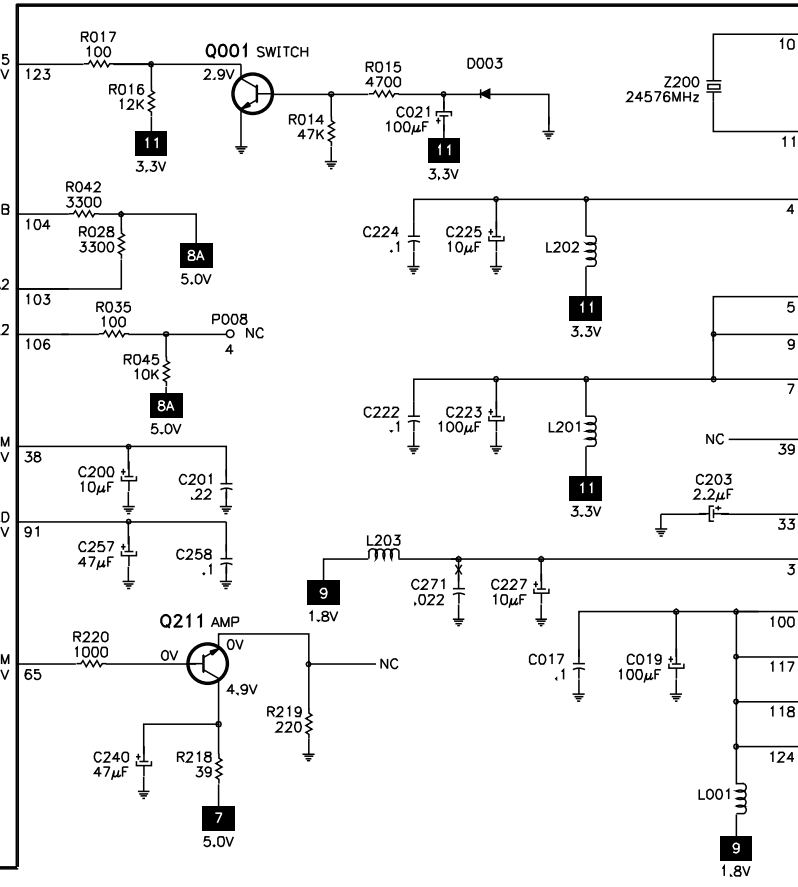
A

B

AUDIO/VIDEO SELECTOR SCHEMATIC



PART OF IC200 SWITCH



TEST EQUIPMENT

Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

Equipment	Sencore No.
Oscilloscope	SC3100
Generators	
RGB	CM2125
Multiburst Signal	VG91
Color Bar	VG91
TV Stereo	VG91
Digital VOM	SC3100
Frequency Meter	SC3100
Hi-Voltage Probe	HP200
Accessory Probes	TP212
Isolation Transformer	PR570
Capacitance Analyzer	LC102
CRT Analyzer	CR7000
AC Leakage Tester	PR570
Inductance Analyzer	LC102
Flyback Yoke Tester	TVA92
Field Strength Meter	SL753
Transistor Tester	TF46
Horizontal Analyzer	HA-2500
Video Analyzer	VG91, TVA92

Important Parts Information

- Parts not listed in the parts list are commonly available at your local electronics parts retailer.
- The parts listed here are those not usually available from a well-stocked supply cabinet or bin.
- Where items may be replaced with equivalent parts, several alternates are shown from participating vendors.
- On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.
- When ordering parts, state the model number, part number, and description.

Obtaining Parts

Many of these parts are available from your local Sams authorized distributor or the manufacturer of the equipment. Call Sams for the name of your nearest distributor:

800-428-7267

Participating Vendors

Information on test equipment and replacement parts is listed in these pages for the following participating vendors.

- NTE Electronics, Inc. (NTE)
- Sencore, Inc.

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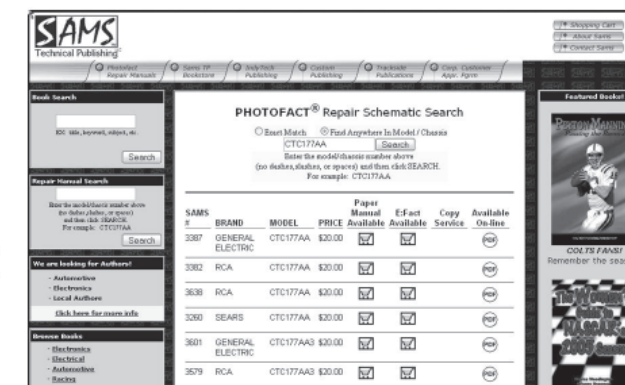
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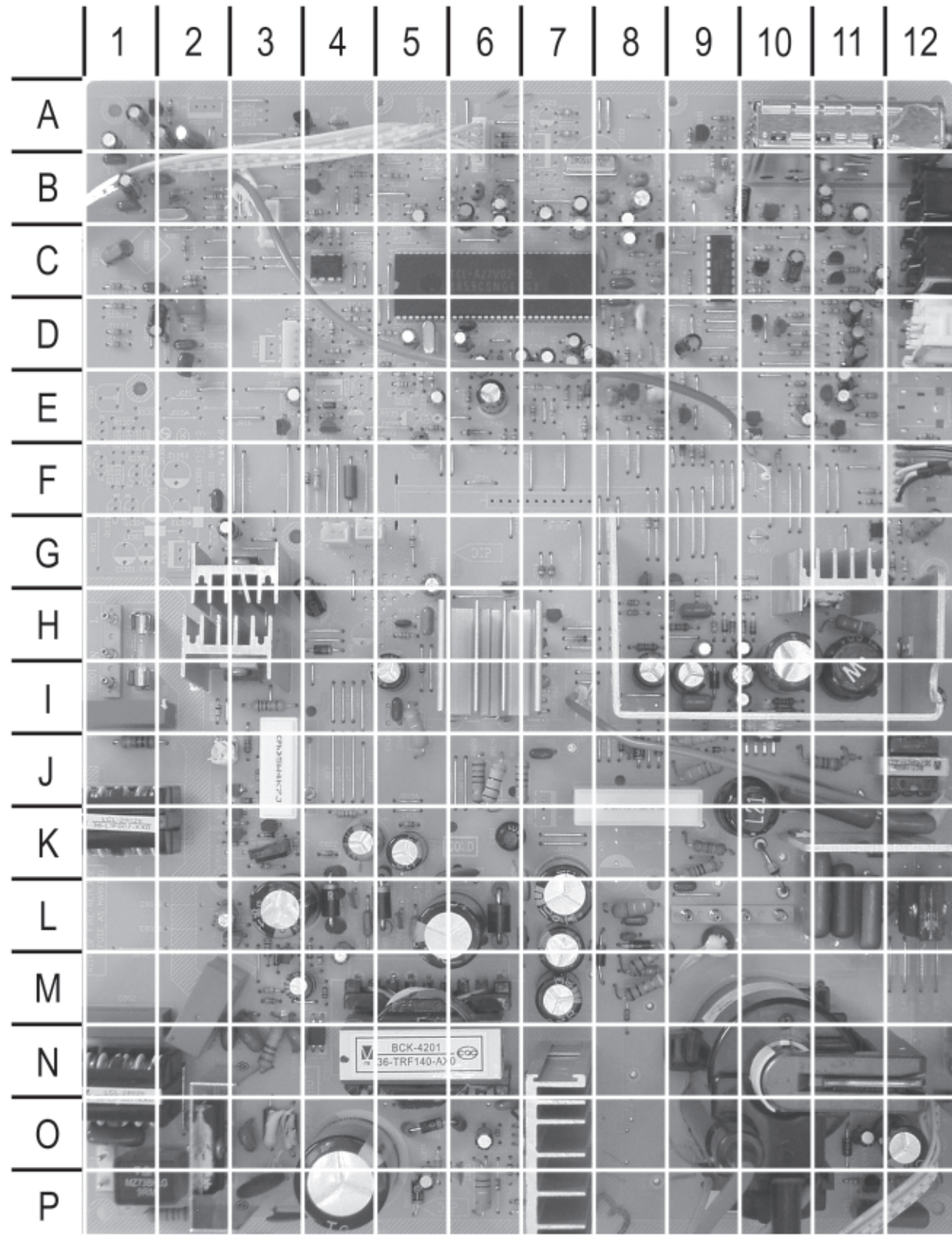
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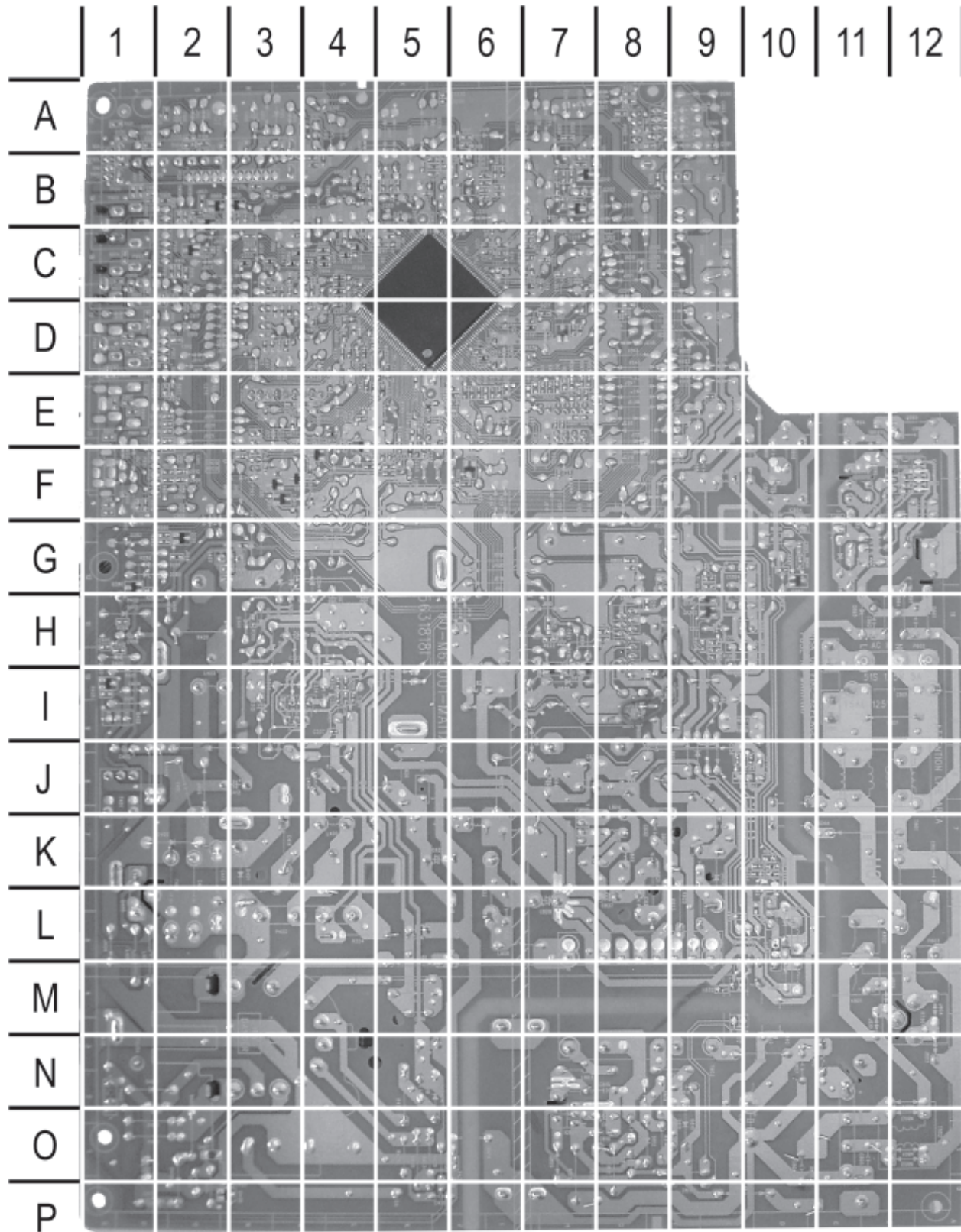
MAIN BOARD TOP



MAIN BOARD TOP, GRIDTRACE LOCATION GUIDE

C019	C6	C325	J10	C816	N4	D010	F6	D864	H1	L404	J9	R031	D5	R813	N5
C021	C5	C334	I9	C820	K4	D080	E4	D865	G2	L801	K7	R033	D4	R814	O5
C029	F7	C342	K9	C821	K4	D100	A12	D866	G2	L802	K5	R081	F4	R815	O6
C081	E4	C360	H10	C822	K4	D102	C10	D867	L3	L803	N6	R090	C9	R816	P6
C083	E4	C400	O12	C823	K8	D204	F9	D868	F3	L804	K5	R111	A9	R818	N5
C090	A4	C401	N12	C824	I7	D226	A8	D869	G3	L805	K5	R115	A9	R820	L4
C093	A4	C402	J12	C825	L5	D280	G12	D900	F12	L806	N3	R213	A6	R822	L4
C094	D4	C404	I12	C826	L7	D281	G12	D901	D11	L807	J6	R216	A6	R823	L5
C095	D4	C406	H12	C827	K6	D282	G12	D902	F12	L808	L7	R218	F9	R826	J8
C100	C11	C408	L12	C828	L6	D283	G10	D903	D11	L861	F4	R237	E9	R830	L4
C103	A11	C410	L11	C829	I7	D300	H10	D904	D11	P001	E6	R255	F9	R835	J7
C105	A10	C411	J11	C831	J6	D304	G9	D905	E11	P003	A5	R256	F9	R839	I4
C200	B9	C412	J11	C832	K5	D305	G9	D906	D10	P008	E6	R257	F10	R840	M3
C203	B8	C413	L11	C837	L5	D306	H10	D907	D10	P130	A12	R271	F9	R841	I4
C206	B7	C414	K10	C838	J5	D307	I10	DB801	O2	P200	C10	R282	G12	R842	J3
C208	B7	C415	N8	C839	K6	D308	I10	F800	I2	P202	E10	R313	J9	R849	G1
C212	B6	C416	L8	C840	M3	D309	H10	IC001	A4	P203	E10	R315	J9	R860	E1
C215	B6	C417	P12	C841	J5	D400	N12	IC090	B4	P209	B9	R321	I9	R861	G2
C219	B6	C418	N8	C842	J6	D401	K10	IC091	C4	P400	L10	R324	L9	R862	F2
C223	C6	C419	M8	C860	E1	D402	K11	IC301	I10	P402	H12	R401	L10	R865	G2
C225	C6	C420	P8	C861	G1	D404	N8	IC601	H5	P403	N12	R406	I1	R868	G3
C227	C6	C421	O11	C864	G2	D405	M8	IC801	O6	P600	I5	R407	O11	R869	G3
C228	B9	C600	I5	C866	F3	D406	O11	IC802	M4	P601	H5	R409	J11	R890	G3
C230A	B10	C601	I5	C867	F4	D408	G10	IC803	J3	P802	I1	R410	J11	R1301	G5
C231	D9	C604	G5	C868	F4	D409	I12	IC804	G2	P803	M1	R411	I12	RT801	N1
C234	B9	C605	H5	C890	F2	D411	J11	IC860	F1	P807	K6	R413	I12	RT802	N3
C235A	C10	C606	H5	C891	H1	D412	H12	K802	L2	P900	B12	R419	J9	RT860	H1
C236	C9	C615	H5	C892	H2	D413	O7	L001	D6	P1301	H3	R420	H11	T401	J12
C237	C9	C616	I6	C893	F1	D600	I6	L002	E5	Q080	E4	R421	O11	T402	N11
C238	D9	C801	I1	C894	E2	D621	H7	L101	B10	Q101	A9	R422	O11	T801	J2
C239	D9	C802	L1	C904	B9	D622	I6	L102	A9	Q201	A5	R424	O8	T802	O1
C240	F9	C803	L1	C905	B9	D623	G6	L200	A6	Q203	B6	R425	O8	T803	M5
C241	E9	C804	O3	C908	F11	D810	O4	L201	C5	Q211	F3	R426	N8	T860	F2
C250	E8	C804A	K3	C909	F11	D811	O5	L202	C5	Q402	I12	R427	M8	TU100	A11
C253	E8	C805	O2	C911	F11	D812	O5	L203	C6	Q405	L12	R428	O8	Z100	B7
C257	E8	C805A	J3	C917	D11	D813	P4	L204	B9	Q407	G11	R429	O11	Z101	B8
C262	E7	C806	O3	C918	C11	D820	K4	L205	B9	Q861	L3	R433	O8	Z200	C7
C265	B8	C807	N3	C919	D11	D821	L5	L206	E9	Q1303	I4	R435	N12		
C266	B8	C809	I4	C1301	G4	D822	L7	L207	F8	Q1304	H3	R606	H6		
C300	H9	C810	O5	C1302	H4	D823	K5	L208	F8	Q1305	H3	R608	H6		
C307	H9	C811	O5	C1303	G4	D824	J4	L209	F8	Q1306	G3	R609	H6		
C308	H8	C812	N5	C1304	H3	D860	F2	L210	F8	R009	A5	R611	J4		
C313	I10	C813	O5	D003	C6	D861	H1	L211	F7	R022	D4	R801	I1		
C323	I10	C814	O5	D006	D4	D862	H2	L400	K9	R023	E4	R810	P3		
C324	H9	C815	N6	D008	F7	D863	H2	L403	I11	R024	D5	R811	O4		
										R030	F6	R812	O5		

MAIN BOARD BOTTOM



MAIN BOARD BOTTOM, GRIDTRACE LOCATION GUIDE

C003	A8	C245	D4	C907	F1	R014	D7	R906	E1
C004	A7	C246	D4	C910	F2	R015	D7	R907	F2
C005	A8	C247	E4	C912	D2	R016	D7	R908	B2
C017	C7	C248	D4	C914	C2	R017	D7	R909	F1
C018	D6	C249	E4	C915	C2	R018	C8	R910	B2
C022	D7	C251	D4	C920	E2	R025	E7	R911	F2
C023	D7	C252	F4	C922	D1	R026	E7	R912	C2
C026	E7	C254	F3	C923	D1	R027	E7	R913	C1
C027	E7	C255	F5	C926	E2	R028	E7	R914	C1
C082	E9	C256	F5	C927	E2	R029	E7	R915	C2
C091	A9	C258	E5	C928	E2	R034	E6	R916	C2
C092	B9	C259	F3	C929	D3	R035	E6	R917	C1
C102	A2	C260	E5	C930	D4	R036	E6	R918	F1
C106	C3	C261	E5	C960	C3	R039	D7	R919	C2
C107	B3	C264	C7	C961	D4	R042	E7	R920	E2
C108	A4	C267	D4	IC200	C6	R350	I4	R921	D1
C109	A6	C268	F3	Q001	D7	R412	H1	R922	D1
C110	B6	C270	F5	Q200	B7	R418	G2	R923	D1
C201	C5	C271	C7	Q202	B7	R600	I8	R924	D3
C204	B5	C272	B4	Q204	E4	R601	I8	R925	D3
C205	B5	C281	E7	Q205	F6	R602	G8	R926	E2
C207	B6	C282	E7	Q206	F4	R603	G8	R927	E2
C209	B6	C283	E7	Q207	F3	R607	H8	R928	E2
C210	C6	C284	E7	Q208	F3	R610	I7	R929	D3
C211	C6	C337	I4	Q280	G1	R612	H8	R932	D3
C213	B6	C350	I4	Q281	G2	R613	I7	R960	C3
C214	C6	C351	I4	Q403	I1	R622	H7	R961	C3
C216	C7	C405	H1	Q408	P2	R832	M9	R962	C3
C217	C6	C407	G2	Q601	I7	R833	J10	R963	D4
C218	C7	C614	H8	Q602	I7	R863	F12	R1302	H9
C222	C7	C835	J10	Q860	G10	R864	F12	R1303	H9
C224	C7	C836	J10	Q900	C2	R867	G10	R1304	H9
C229	C4	C862	F12	Q901	C2	R893	K10	R1305	G9
C232	D4	C863	F12	Q902	B2	R900	E1	R1306	H9
C233	C3	C865	K10	Q903	B3	R901	E1	R1307	G9
C235	C3	C895	G10	Q1301	H9	R902	B2		
C242	D4	C902	B2	Q1302	H9	R903	B3		
C243	D4	C903	B3	R010	A7	R904	B2		
C244	D4	C906	F2	R011	A8	R905	B2		

PARTS LIST

Item No.	Type No.	Mfr. Part No.	Notes	Item No.	Type No.	Mfr. Part No.	Notes
D006, 08	1N4148	266885	-	Q204 Thru			
D010, 80	-	266888	-	Q208	BC857A	270816	-
D100	1N4148	266885	-	Q211	BC847A	270785	-
D226	1N4148	266885	-	Q280	BC857A	270816	-
D280	-	268336	-	Q281	BC847A	270785	-
D281, 82, 83	1N4148	266885	-	Q402	BC639	270817	-
D300	1N4148	266885	-	Q403	BC846B	270818	-
D304	-	268335	-	# Q405	3DD3402	268428	-
D305	1N4148	266885	-	Q407	IRF630MFP	268367	-
D306	-	266888	-	Q408	BC847A	270785	-
D307, 08	1N4148	266885	-	Q511	2SC4544	208434	-
D309	1N4001	266883	-	Q512	BF422	270819	-
D400	FR104	266880	-	Q513	BF423	270820	-
D401	RS4FS	271995	-	Q521	2SC4544	208434	-
D402	FR104	266880	-	Q522	BF422	270819	-
D404	FR105	270850	-	Q523	BF423	270820	-
D405, 06	FR104	266880	-	Q531	2SC4544	208434	-
D409	1N4148	266885	-	Q532	BF422	270819	-
D411, 12	1N4001	266883	-	Q533	BF423	270820	-
D511, 21, 31	LL4148	270874	-	Q601	BC857A	270816	-
D540	1N4004	270875	-	Q602	BC847A	270785	-
D600, 23	1N4148	266885	-	Q860	BC847A	270785	-
D810, 11, 12	FR104	266880	-	Q861	2SC1815Y	26657	-
D813	-	266890	-	Q880	-	-	-
D822	RU4AM	268339	-	Q900	BC847A	270785	-
D823	RU4YX	268338	-	Q901	BC857A	270816	-
D824	1N4148	266885	-	Q902, 03	BC847A	270785	-
D860	1H8	270877	-	Q1301, 02	BC847A	270785	-
D861 Thru				Q1303	2SC1815Y	266579	-
D864	1N4007	270832	-	Q1304	2SA1015Y	266899	-
D865	FR102	270844	-	Q1305	2SC1815Y	266579	-
D867	1N4148	266885	-	Q1306	2SA1015Y	266899	-
D868	UF4004	270846	-				
D880	-	-	-	Item No.	Function/Rating	Mfr. Part No.	Notes
# DB801	D5SBA60	271994	-	C408	.0033 5% 1.6kV	268449	-
IC090	L7805CV	270856	-	C410	.0082 5% 1.6kV	270396	-
IC301	STV8172	270381	-	C413	.0082 5% 1.6kV	270740	-
IC601	TDA7266SA	268347	-	C505	.001 10% 2kV	-	-
IC801	STRW6735	268348	-	# C801, 02	.22 275VAC	270379	-
IC802	PS2561L1-1V	268349	-	C804	.0047 +80%-20% 250VAC	266984	-
IC803	TL431ACLP	270859	-	# C804A	470pF 10% 400V	266983	-
Q101	2SC3779D	266902	-	C805	.0047 +80%-20% 250VAC	266984	-
Q200, 02	BC847A	270785	-	# C805A	470pF 10% 400V	266983	-

PARTS LIST continued

Item No.	Type No.	Mfr. Part No.	Notes	Item No.	Function/Rating	Mfr. Part No.	Notes
C815	.0015 10% 2kV	268330	-	P1101	Jack	266589	Assembly
C826	470pF 2kV	273497	-	P1102	Jack	266587	Assembly
# C840	.001 20% 400V	270724	-	P1103	Jack	266585	Assembly
C894	.001 20% 400VAC	270729	-	R407	1 5% 1/2W Fusible	266321	-
CH012	Ferrite Bead	263529	-	R419	68 5% 2W Fusible	272021	-
# CRT500	CRT	-	A80AEJ10X09	# R421, 22	3.3 1/2W Fusible	272016	-
DEGAUSS	Degaussing	271951	-	R426, 27	.47 5% 1/2W Fusible	270801	-
# F800	Fuse	273739	5A	# R801	1M 20% 1/2W	266940	-
IR001	HRM557AA5100	270382	Remote	R810	47K 5% 3W	270865	-
K002	Switch	273384	Search	# R820	Fuse	268410	5A
K003	Switch	267136	P+	# R822, 23	Fuse	268411	3A
K004	Switch	267136	P-	R835	120K 1% 1/2W	268414	-
K005	Switch	267136	Volume +	R839	120K 1% 1/4W	270836	-
K006	Switch	267136	Volume -	# R840	8.2M 1% 1W	266941	-
K007	Switch	267136	Menu	# RT801	9 PTC Cold	268418	-
K008	Switch	267136	TV/AV	# RT802	2.5 NTC Cold	270409	-
# K801	Degaussing Coil	271951	-	# RT860	5 NTC Cold	270878	-
# K802	Relay	270860	Power	# T401	Horizontal Drive	270864	-
L001, 02	10μH	267006	-	T402 (1)	Horizontal Output	270879	-
L101	10μH	267006	-	# T801, 02	Line Filter	268420	-
L102	1μH	267007	-	# T803	Power	274220	-
L200	10μH	267006	-	# T860	Power	274219	-
L201, 02	1μH	267007	-	TU100	Tuner	270388	TEDH9-251A
L203 Thru				Z100	Filter	270854	SAW
L207	10μH	267006	-	Z101	Filter	270829	SAW
L208 Thru				Z200	Crystal	270830	24576MHz
L211	Ferrite Bead	270823	-	ZH101	Tuner	272024	Digital
L400	21μH	268354	-		Fuse Holder	267064	For F800 (2 Used)
L403	600μH	268353	-		PC Board	271976	ADM1 Tuner
L404	Horizontal Width	271991	-		PC Board	271974	CRT
L501	10μH	267011	-		PC Board	274296	Keyboard
L801	100μH	267012	-		Socket	270814	CRT
L802	10μH	270709	-	#	Transmitter	271706	Remote, R130TA1 RC
L803	Ferrite Bead	270823	-				
L804, 05	-	270824	-				
L806	Ferrite Bead	270823	-				
L807	10μH	270709	-				
L808	Ferrite Bead	270823	-				
L861	100μH	267012	-				
P601, 02	Speaker	271958	2.5" X 5"				
# P800	Line Cord	268457	AC, Polarized				
P900	Jack	268360	Assembly				
P902	Jack	268360	Assembly				
P904	Jack	268361	Assembly				

For SAFETY use only equivalent replacement part.
 (1) Screen and focus controls are part of T402.

RCA MODEL 32V434TYX1 (Chassis ATC010A)